ENTERED

#2

RAW SEQUENCE LISTING   DATE: 08/15/2003
PATENT APPLICATION: **US/09/938,671**   TIME: 14:40:44

Input Set : **N:\Crf3\RULE60\09938671.raw.txt**
Output Set: **N:\CRF4\08152003\I938671.raw**

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 1 <110> APPLICANT: Rosen et al.
 2 <120> TITLE OF INVENTION: 36 Human Secreted Proteins
 3 <130> FILE REFERENCE: PZ022P1
 4 <140> CURRENT APPLICATION NUMBER: US/09/938,671
 5 <141> CURRENT FILING DATE: 2001-08-27
 6 <150> PRIOR APPLICATION NUMBER: 09/348,457
 7 <151> PRIOR FILING DATE: 1999-07-07
 8 <150> PRIOR APPLICATION NUMBER: 60/070,567
 9 <151> PRIOR FILING DATE: 1998-01-07
10 <150> PRIOR APPLICATION NUMBER: 60/070,692
11 <151> PRIOR FILING DATE: 1998-01-07
12 <150> PRIOR APPLICATION NUMBER: 60/070,704
13 <151> PRIOR FILING DATE: 1998-01-07
14 <150> PRIOR APPLICATION NUMBER: 60/070,658
15 <151> PRIOR FILING DATE: 1998-01-07
16 <160> NUMBER OF SEQ ID NOS: 196
17 <170> SOFTWARE: PatentIn Ver. 2.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 733
21 <212> TYPE: DNA
22 <213> ORGANISM: Homo sapiens
23 <400> SEQUENCE: 1
24      gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg      60
25      aattcgaggg tgcaccgtca gtcttcctct tcccccaaa acccaaggac accctcatga     120
26      tctcccggac tcctgaggtc acatgcgtgg tggtggacgt aagccacgaa gaccctgagg     180
27      tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg     240
28      aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact     300
29      ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca acccccatcg     360
30      agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc     420
31      catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct     480
32      atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga     540
33      ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg     600
34      acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc     660
35      acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc     720
36      gactctagag gat                                                        733
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 5
40 <212> TYPE: PRT
41 <213> ORGANISM: Homo sapiens
42 <220> FEATURE:
43 <221> NAME/KEY: Site
44 <222> LOCATION: (3)
45 <223> OTHER INFORMATION: Xaa equals any of the twenty naturally ocurring L-amino acids
```

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Output Set: **N:\CRF4\08152003\I938671.raw**

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      46 <400> SEQUENCE: 2
W--> 47       Trp Ser Xaa Trp Ser
      48         1                5
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      52 <212> TYPE: DNA
      53 <213> ORGANISM: Homo sapiens
      54 <400> SEQUENCE: 3
      55      gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc    60
      56      cccgaaatat ctgccatctc aattag                                       86
      58 <210> SEQ ID NO: 4
      59 <211> LENGTH: 27
      60 <212> TYPE: DNA
      61 <213> ORGANISM: Homo sapiens
      62 <400> SEQUENCE: 4
      63      gcggcaagct ttttgcaaag cctaggc                                      27
      65 <210> SEQ ID NO: 5
      66 <211> LENGTH: 271
      67 <212> TYPE: DNA
      68 <213> ORGANISM: Homo sapiens
      69 <400> SEQUENCE: 5
      70      ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg   60
      71      aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc  120
      72      gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat  180
      73      ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt  240
      74      ttttggaggc ctaggctttt gcaaaaagct t                                 271
      76 <210> SEQ ID NO: 6
      77 <211> LENGTH: 32
      78 <212> TYPE: DNA
      79 <213> ORGANISM: Homo sapiens
      80 <400> SEQUENCE: 6
      81      gcgctcgagg gatgacagcg atagaacccc gg                                32
      83 <210> SEQ ID NO: 7
      84 <211> LENGTH: 31
      85 <212> TYPE: DNA
      86 <213> ORGANISM: Homo sapiens
      87 <400> SEQUENCE: 7
      88      gcgaagcttc gcgactcccc ggatccgcct c                                 31
      90 <210> SEQ ID NO: 8
      91 <211> LENGTH: 12
      92 <212> TYPE: DNA
      93 <213> ORGANISM: Homo sapiens
      94 <400> SEQUENCE: 8
      95      ggggactttc cc                                                      12
      97 <210> SEQ ID NO: 9
      98 <211> LENGTH: 73
      99 <212> TYPE: DNA
     100 <213> ORGANISM: Homo sapiens
     101 <400> SEQUENCE: 9
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Input Set : N:\Crf3\RULE60\09938671.raw.txt
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```
102        gcggcctcga ggggactttc ccgggggactt tccgggggact ttccgggact ttccatcctg        60
103        ccatctcaat tag                                                            73
```

105 <210> SEQ ID NO: 10
106 <211> LENGTH: 256
107 <212> TYPE: DNA
108 <213> ORGANISM: Homo sapiens
109 <400> SEQUENCE: 10

```
110        ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct        60
111        caattagtca gcaaccatag tcccgcccct aactccgccc atcccgcccc taactccgcc        120
112        cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga        180
113        ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg        240
114        cttttgcaaa aagctt                                                         256
```

116 <210> SEQ ID NO: 11
117 <211> LENGTH: 1713
118 <212> TYPE: DNA
119 <213> ORGANISM: Homo sapiens
120 <400> SEQUENCE: 11

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121        ggcacgagca cagataaaga taagttttac tgtcatgctg cttttaacat aacagagcaa        60
122        catcacctag gaaaaaagtt tgtaggagga tttttaatcc atatatttgt cttatggcta        120
123        gataaagatt tctctgaaaa aaagaagcat gtcaggaatc tctgggtgcc ccttttttcct       180
124        ctggggactt ctagcattgt tgggcttggc tttggttata tcactgatct tcaatatttc        240
125        ccactatgtg gaaaagcaac gacaagataa aatgtacagc tactccagtg accacaccag        300
126        ggttgatgag tattatattg aagacacacc aatttatggt aacttagatg atatgatttc        360
127        agaaccaatg gatgaaaatt gctatgaaca aatgaaagcc cgaccagaga aatctgtaaa        420
128        taagatgcag gaagccaccc catctgcaca ggcaaccaat gaaacacaga tgtgctacgc        480
129        ctcacttgat cacagcgtta aggggaagcg tagaagccca ggaaacagaa tactcatttc        540
130        tcagacaagg atggagatga gcaactacat gcaatagatg ccagcgtttc taaaccacct        600
131        tagtagacag tttctccccg aaagccaggc gtagaggaaa acattcatga tgatcccatc        660
132        gactgtttgg attgatccgt gctaagagaa acctattaac tagctggacc atgatctgtt        720
133        caatgattgg ctcctattga agatggcttc taagaaaaca agatgcacag aggacacaga        780
134        aggacttggc agcagggtga tgacctgatc atttgttgat gggatggtgg cttacctctt        840
135        attcacagct tacacttatg catgccaaat gtaaggccat gaaaatcagt atttcaaata        900
136        acttaaaaaa tgctttacta ctaaaatgta aaaaattaat gtgctcacct cggcagcaca        960
137        tatactaaaa attaataaga cccagcttga aaattgagcc tgataacaag attacaaatt        1020
138        cacaatacct aatacttagg gaaatataaa aatttaagca tgaatgtgtt ctggaacacg        1080
139        ttagaagaaa aataaaagcc aatgagtttt tttttaattc tcctttctca ccaatgggca        1140
140        atagcccata attgaaataa atttctgatt gaaaggtata ggaaacatta aaatgcatta        1200
141        ctaagagaag taatataatt ttcttacaaa gtattttttcc caaagatagc tttactattt        1260
142        caaaaattgt caaattaatg catgctcctt acaacaaaca aatatcaaaa agagtttagg        1320
143        aattctacta gccagagata gtcacttgga gaaactttct atatatccttt ctaaatattt       1380
144        ttctgggcat gcttatgtat gtacatcagt tgtttctttt tattttgaac caaaaatgtg        1440
145        gtttctttttg tacacattac ttaaactttc tttccagtca acaatatatt gtggatttat       1500
146        tttcactgtt atatttaact atatataaat acgcatatat tgtaattttta atgtctgctt       1560
147        agcaccccac tgataaccaa atcacagttt atttaaataa ttttaatgac ttttcaaaaa        1620
148        caatttattg atgcaaaaag caaggttgag atgacaatgt ttctttcaat aattaaaaaa        1680
149        tactgcttca ctgtcaaaaa aaaaaaaaaa aaa                                      1713
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151 <210> SEQ ID NO: 12
152 <211> LENGTH: 2062
153 <212> TYPE: DNA

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Input Set : **N:\Crf3\RULE60\09938671.raw.txt**
Output Set: **N:\CRF4\08152003\I938671.raw**

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154 <213> ORGANISM: Homo sapiens
155 <220> FEATURE:
156 <221> NAME/KEY: SITE
157 <222> LOCATION: (1674)
158 <223> OTHER INFORMATION: n equals a,t,g, or c
159 <221> NAME/KEY: SITE
160 <222> LOCATION: (1699)
161 <223> OTHER INFORMATION: n equals a,t,g, or c
```
W--> 162 <400> 12
```
163      ggcagagcat taattgatat tttaatatgg atagacattg catagattca aataaattaa      60
164      aatcaatgat aaatgctaaa tattttatct aaatagtttt tcaagaaaca gttatggaaa     120
165      tgtgtatatt raatggctct aatgtggagc ttgtggtatt tcaactcagt attcattatt     180
166      agttgtgtgt ctggaaagat tgtacttact tttcctcttt acactacagt ttgctcttat     240
167      ggggctctaa actgtttaac tgaagaacct tcgtctgtat tttgattgag cataatttag     300
168      tattttatga tttccaagat gatgttctta tgtctatcaa gtctatgtat caaatttata     360
169      acatcattta agaaaaagga atttccacag atacttcagt tgcaattttt tgtttcatgc     420
170      tactgaaaat acatttgttt ctaggggttg gaatattata gaagatgtag gatgaaagaa     480
171      aacgatagaa caacgaaaga attctgttta tgaaattaca ggaattgtgt ccactatggt     540
172      aaagcattgt cattttagta cattttctct tagtagtttg gcattttata ctttaaaact     600
173      tgttttgctt taaaaattgt ttataatgct taccttcttt ctccagtgcc tttagtcttg     660
174      atttgatatg tttgtaccct cagttaccct ttctattaca tgtttttgat gttttcatag     720
175      cctaggaaac atcgattcct tttaataat  tgtcaatctg attatttaaa gaggtaacaa     780
176      ttatctgtta atgctttgga aaaacaagta gggttgcctt tggaggccag gcttcttart     840
177      tcattcaaaa atattccttg gatttatgcc atgtwttaag catttttagc ccccagtatt     900
178      acaactgtga accaaacgga taaggcccta accattttca gcattctctt tggatggggt     960
179      gggattgggg acttaattaa aatagagata tagaaaaata ggcatctaaa taagataata    1020
180      agtgtggggt tgaaatgaag catctaacaa tagttgaagt tagaagtaat attttacagt    1080
181      attgtaacct ctatttaagt ttgggtatta gttacagata gcataaaaaa gccttaattt    1140
182      ttcactttcc ttgctggcaa aggtacattt atttagactg tccatttaaa gtaatgttta    1200
183      acataaacat tactgtgaaa aacattccat tacatattcc caagcaaatg agctgcatct    1260
184      tctttactgt attttacaat ttagtacaac agttttaggc ctcaatctta acatcactgg    1320
185      tattttaaat ttggcaatga atatgaaatt acttttgact tacagattga ttatattatt    1380
186      actttgaaaa tgcattaatt tcttagaaaa gtttggagcc tctatctttt tttgagttaa    1440
187      tacttaaatt ctcattactt atattaatag cctgtactaa gtgaaaatat tatttatgca    1500
188      agtaaacaag tcactatagg ctttttaagac ttttctttaa ttttagattt tgtcatcaaa    1560
189      gtttaaattt tttacctact gtccacttrr atataattta acagtttgta aagtgaaata    1620
```
W--> 190   **gtyttaagta tgatgtatga tgcaccggca tataatgaaa atggcgtgca caangacact**   **1680**
```
191      ttactatggg aactgtacng gaagatttat gaaagcatgt gaaattgcac ctaaaattgt    1740
192      gttattagtg actataagca gcaatgctaa atttattgta cttgatgaat gaatgtattt    1800
193      agtcacagtt actttggttt aaatgtataa atgtctttag ggtttttttt taaatgtgtt    1860
194      tgtaatttgt actattgtgg gggtatactt ggactgcagg ggttattgtc aatgtgtgat    1920
195      ttgtgttttt attttataga atcatctaat gtgatatacc aatttttata agtgatattt    1980
196      acataattct aataactgta tatttgacaa cctattaaaa tgttttgcat tggaaaaaaa    2040
197      aaaaaaaaaa aaaaaactcg ta                                             2062
199 <210> SEQ ID NO: 13
200 <211> LENGTH: 1224
201 <212> TYPE: DNA
202 <213> ORGANISM: Homo sapiens
203 <220> FEATURE:
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Input Set : **N:\Crf3\RULE60\09938671.raw.txt**
Output Set: **N:\CRF4\08152003\I938671.raw**

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   204 <221> NAME/KEY: SITE
   205 <222> LOCATION: (1205)
   206 <223> OTHER INFORMATION: n equals a,t,g, or c
   207 <400> SEQUENCE: 13
   208      ggcacgaggg gactttccac agtcagctgg acgcacactc agcccagtaa aagagggggac       60
   209      ccatcccggg agccccgggg agggcacagc tgcctcctcc cgggctcccc tgccacctgg      120
   210      tgcctacctg ccccctgctc cctgccgggt ccggtcctca ccccatcttc atctggcctt      180
   211      gactctgccc ttgaggggcc tagggggtgca gccagcctgc tccgagctcc cctgcagatg      240
   212      gaggaggcca tcctggtccc ctgcgtgctg gggctcctgc tgctgcccat cctggccatg      300
   213      ttgatggcac tgtgtgtgca ctgccacaga ctgccaggct cctacgacag cacatcctca      360
   214      gatagtttgt atccaaaggg gcatccagtt caaacggcct cacacggttg cccctggcc      420
   215      acctgcctac ccacctgtca cctcctaccc acccctgagc cagccagacc tgctccccat      480
   216      cccaagatcc ccgcagcccc ttggggggctc ccaccggacg ccatcttccc ggcgggattc      540
   217      tgatggtgcc aacagtgtgg cgagctacga aacgaggaac cagcctgtga ggatgcggat      600
   218      gagatgagga cgactatcac aacccaggct acctggtggt gcttcctgac agcaccccgg      660
   219      ccactacact gctgccccat cagctcctgc actcagcacc cctggcatcc gagacagtgc      720
   220      cttctccatg gagtccattg atgattacgt gaacgttccg gagagcgggg agagcgcaga      780
   221      agcgtctctg gatggcagcc gggagtatgt gaatgtgtcc caggaactgc atcctggagc      840
   222      ggctaagact gagcctgccg ccctgagttc ccaggaggca gaggaagtgg aggaagaggg      900
   223      ggctccagat tacgagaatc tgcaggagct gaactgaggg cctgtggagg ccgagtctgt      960
   224      cctggaacca ggcttgcctg ggacggctga gctgggcagc tggaagtggc tctgggggtcc     1020
   225      tcacatggcg tcctgcccctt gctccagcct gacaacagcc tgagaaatcc ccccgtaact     1080
   226      tattatcact ttgggggttcg gcctgtgccc ccgaacgctc tgaccttctg acgcagcctg     1140
   227      agaatgacct gcctggcccc agccctactc tggtaataca ataaaggcct gcgtgtgtct     1200
W--> 228      gtgtnaaaaa aaaaaaaaaa aaaa                                             1224
   230 <210> SEQ ID NO: 14
   231 <211> LENGTH: 1621
   232 <212> TYPE: DNA
   233 <213> ORGANISM: Homo sapiens
   234 <220> FEATURE:
   235 <221> NAME/KEY: SITE
   236 <222> LOCATION: (1596)
   237 <223> OTHER INFORMATION: n equals a,t,g, or c
   238 <221> NAME/KEY: SITE
   239 <222> LOCATION: (1607)
   240 <223> OTHER INFORMATION: n equals a,t,g, or c
W--> 241 <221> SITE
   242 <222> LOCATION: (1616)
   243 <223> OTHER INFORMATION: n equals a,t,g, or c
W--> 244 <400> 14
   245      gggcaaccct gccattctcc cctccagtgg aagattctac tttattcagg aaggctggtg       60
   246      gcttgcaggg gctaggctta cacaagccag ccaagattga gaaggtaggg gagtgctttc      120
   247      aatggaggcc atagttgtca tcttttcttc tgagcaggct ctaggacaaa caatgagcaa      180
   248      attgagatgt cctgtattgg gaggatgagg ctgatatgtt tcatcattct cagaatttgt      240
   249      gggctagagc accttttttgg gaatatgggc ctagggraaa agaacggtca cttacctgga      300
   250      cactatggcc atagtcttga gtttttctag tcagcatgtg attggttgta ccttaagttt      360
   251      atgmcaccaa aaatactatt aactctgtta ttttttgttct taatcccatc tcaaattagt      420
   252      ttctagagtt agaatcagaa cacaaggatg ctcattttca catggaggga aagttgccaa      480
   253      agcatttaaa aaataacccc aaaagtatat ctagcagtga agcttggtag ataaaggtga      540
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Input Set : **N:\Crf3\RULE60\09938671.raw.txt**
Output Set: **N:\CRF4\08152003\I938671.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:2; Xaa Pos. 3
Seq#:12; N Pos. 1674,1699
Seq#:13; N Pos. 1205
Seq#:14; N Pos. 1596,1607,1616
Seq#:16; N Pos. 55,110
Seq#:19; N Pos. 602,603,606,607,608
Seq#:21; N Pos. 540
Seq#:24; N Pos. 146,525,2196,2254,2256,2274
Seq#:32; N Pos. 32,772,829
Seq#:34; N Pos. 85
Seq#:36; N Pos. 607
Seq#:37; N Pos. 34
Seq#:39; N Pos. 1246,1846
Seq#:44; N Pos. 2755,2849,2919,2983,2987,2998,3027
Seq#:46; N Pos. 1240
Seq#:47; N Pos. 893,895,905,911
Seq#:50; N Pos. 2278,2290
Seq#:56; Xaa Pos. 143
Seq#:57; Xaa Pos. 51
Seq#:58; Xaa Pos. 102
Seq#:59; Xaa Pos. 31,48
Seq#:60; Xaa Pos. 98
Seq#:61; Xaa Pos. 52
Seq#:62; Xaa Pos. 52
Seq#:64; Xaa Pos. 42
Seq#:66; Xaa Pos. 58
Seq#:68; Xaa Pos. 74
Seq#:70; Xaa Pos. 46
Seq#:71; Xaa Pos. 64
Seq#:72; Xaa Pos. 48
Seq#:73; Xaa Pos. 49
Seq#:74; Xaa Pos. 47
Seq#:75; Xaa Pos. 59
Seq#:77; Xaa Pos. 44
Seq#:78; Xaa Pos. 48
Seq#:79; Xaa Pos. 210
Seq#:80; Xaa Pos. 48
Seq#:81; Xaa Pos. 48
Seq#:83; Xaa Pos. 89
Seq#:84; Xaa Pos. 161,212,213,215,216,218,221,250
Seq#:85; Xaa Pos. 58
Seq#:86; Xaa Pos. 49
Seq#:87; Xaa Pos. 170
Seq#:88; Xaa Pos. 174
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Input Set : **N:\Crf3\RULE60\09938671.raw.txt**
Output Set: **N:\CRF4\08152003\I938671.raw**

```
Seq#:89; Xaa Pos. 275
Seq#:90; Xaa Pos. 83
Seq#:91; Xaa Pos. 99,212
Seq#:92; Xaa Pos. 41
Seq#:93; Xaa Pos. 49
Seq#:94; Xaa Pos. 90
Seq#:96; Xaa Pos. 60
```

<u>Invalid Line Length:</u>
The rules require that a line not exceed 72 characters in length. This includes spaces.

```
Seq#:1; Line(s) 24,25,26,27,28,29,30,31,32,33,34,35,36
Seq#:2; Line(s) 45
Seq#:3; Line(s) 55,56
Seq#:4; Line(s) 63
Seq#:5; Line(s) 70,71,72,73,74
Seq#:6; Line(s) 81
Seq#:7; Line(s) 88
Seq#:8; Line(s) 95
Seq#:9; Line(s) 102,103
Seq#:10; Line(s) 110,111,112,113,114
Seq#:11; Line(s) 121,122,123,124,125,126,127,128,129,130,131,132,133,134
Seq#:11; Line(s) 135,136,137,138,139,140,141,142,143,144,145,146,147,148
Seq#:11; Line(s) 149
Seq#:12; Line(s) 163,164,165,166,167,168,169,170,171,172,173,174,175,176
Seq#:12; Line(s) 177,178,179,180,181,182,183,184,185,186,187,188,189,190
Seq#:12; Line(s) 191,192,193,194,195,196,197
Seq#:13; Line(s) 208,209,210,211,212,213,214,215,216,217,218,219,220,221
Seq#:13; Line(s) 222,223,224,225,226,227,228
Seq#:14; Line(s) 245,246,247,248,249,250,251,252,253,254,255,256,257,258
Seq#:14; Line(s) 259,260,261,262,263,264,265,266,267,268,269,270,271,272
Seq#:15; Line(s) 279,280,281,282,283,284,285,286,287,288,289,290,291,292
Seq#:15; Line(s) 293,294,295,296,297,298,299,300,301,302
Seq#:16; Line(s) 316,317,318,319,320,321,322,323,324,325,326,327,328,329
Seq#:16; Line(s) 330,331,332,333
Seq#:17; Line(s) 340,341,342,343,344,345,346,347,348,349,350,351,352,353
Seq#:17; Line(s) 354
Seq#:18; Line(s) 361,362,363,364,365,366,367,368,369,370,371,372,373,374
Seq#:18; Line(s) 375
Seq#:19; Line(s) 398,399,400,401,402,403,404,405,406,407,408
Seq#:20; Line(s) 415,416,417,418,419,420,421,422,423,424
Seq#:21; Line(s) 435,436,437,438,439,440,441,442,443,444,445,446,447,448
Seq#:21; Line(s) 449,450,451,452,453,454,455,456,457,458,459,460,461,462
Seq#:21; Line(s) 463,464,465,466,467,468
Seq#:22; Line(s) 475,476,477,478,479,480,481,482,483,484
Seq#:23; Line(s) 491,492,493,494,495,496,497,498,499,500,501,502,503,504
Seq#:23; Line(s) 505,506,507,508,509,510
Seq#:24; Line(s) 536,537,538,539,540,541,542,543,544,545,546,547,548,549
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 08/15/2003
PATENT APPLICATION: **US/09/938,671**   TIME: 14:40:45

Input Set : **N:\Crf3\RULE60\09938671.raw.txt**
Output Set: **N:\CRF4\08152003\I938671.raw**

```
Seq#:24; Line(s) 550,551,552,553,554,555,556,557,558,559,560,561,562,563
Seq#:24; Line(s) 564,565,566,567,568,569,570,571,572,573,574
Seq#:25; Line(s) 581,582,583,584,585,586,587,588,589,590,591,592,593,594
Seq#:25; Line(s) 595
Seq#:26; Line(s) 602,603,604,605,606,607,608,609
Seq#:27; Line(s) 616,617,618,619,620,621,622,623,624,625,626,627,628,629
Seq#:28; Line(s) 636,637,638,639,640,641,642,643
Seq#:29; Line(s) 650,651,652,653,654,655,656,657,658,659,660,661,662,663
Seq#:29; Line(s) 664,665,666,667,668,669,670,671,672
Seq#:30; Line(s) 679,680,681,682,683,684,685,686,687,688,689
Seq#:31; Line(s) 696,697,698,699,700,701,702,703,704,705,706,707,708,709
Seq#:31; Line(s) 710,711,712,713,714,715,716
Seq#:32; Line(s) 733,734,735,736,737,738,739,740,741,742,743,744,745,746
Seq#:33; Line(s) 753,754,755,756,757,758,759,760,761,762,763,764,765,766
```

VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/938,671**

DATE: 08/15/2003
TIME: 14:40:45

Input Set : **N:\Crf3\RULE60\09938671.raw.txt**
Output Set: **N:\CRF4\08152003\I938671.raw**

```
L:47 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:162 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12
L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:1620
M:341 Repeated in SeqNo=12
L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:1200
L:241 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14
L:244 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:1560
L:315 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
M:341 Repeated in SeqNo=16
L:388 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:391 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:394 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:397 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:600
L:443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:480
L:523 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
L:526 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
L:529 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
L:532 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
L:535 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
L:538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:120
M:341 Repeated in SeqNo=24
L:729 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:32
L:732 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:32
L:733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
M:341 Repeated in SeqNo=32
L:787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:60
L:862 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:600
L:874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:940 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:39
L:961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:1200
M:341 Repeated in SeqNo=39
L:1115 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44
L:1118 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44
L:1121 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44
L:1124 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44
L:1127 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44
L:1130 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44
L:1176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:2700
M:341 Repeated in SeqNo=44
L:1236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:1200
L:1249 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:47
L:1252 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:47
L:1255 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:47
L:1270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:840
M:341 Repeated in SeqNo=47
```

VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/938,671**

DATE: 08/15/2003
TIME: 14:40:45

Input Set : **N:\Crf3\RULE60\09938671.raw.txt**
Output Set: **N:\CRF4\08152003\I938671.raw**

```
L:1346 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:50
L:1384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:2220
M:341 Repeated in SeqNo=50
L:1560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:128
L:1578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:48
L:1602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:96
L:1616 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:59
L:1619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:16
M:341 Repeated in SeqNo=59
L:1645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:96
L:1662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:48
L:1680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:48
L:1712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:32
L:1760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:48
L:1800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:64
L:1840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:32
L:1858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:48
L:1874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:32
L:1892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:48
L:1907 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:32
L:1925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:48
L:1987 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:32
L:2003 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:32
L:2041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:208
L:2095 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:32
L:2111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:32
L:2177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:80
L:2191 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84
L:2194 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84
L:2197 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84
L:2200 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84
L:2203 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84
L:2206 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84
L:2209 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84
L:2230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:160
M:341 Repeated in SeqNo=84
L:2420 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:91
L:3986 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:185
L:3989 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:185
L:3992 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:185
L:3995 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:185
L:3998 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:185
L:4001 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:185
```

STATISTICS SUMMARY   DATE: 08/15/2003
PATENT APPLICATION: **US/09/938,671**   TIME: 14:40:45

Input Set : **N:\Crf3\RULE60\09938671.raw.txt**
Output Set: **N:\CRF4\08152003\I938671.raw**

Application Serial Number: US/09/938,671
Alpha or Numeric or Xml: Numeric
Application Class:
Application File Date: 08-27-2001
Art Unit: OIPE
Software Application: PatentIN2.0
Total Number of Sequences: 196
Total Nucleotides: 60531
Total Amino Acids: 12201
Number of Errors: 0
Number of Warnings: 120
Number of Corrections: 0

MESSAGE SUMMARY

258 W: 41 (Mandatory Feature missing)
341 W: 79 ((46) "n" or "Xaa" used)